Amateur Radio Newsline(tm) Report 1770 - July 15 2011

Amateur Radio Newsline report number 1770 with a release date of Friday, July 15 2011 to follow in 5-4-3-2-1.

The following is a Q-S-T. The deployment of ARISSat One is delayed, the FCC initiates a big project to bring the Internet to students and schools; the Hurricane Watch Net is looking to expand its storm spotter database, and love triumphs at Field Day. Find out the details are on Amateur Radio Newsline(tm) report number 1770 coming your way right now.

(Billboard Cart Here)

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HAM RADIO IN SPACE: ANOTHER ARISSAT-1 DELAY

The orbiting of ARISSat One has been delayed for a few weeks. Bill Pasternak, WA6ITF, is in the newsroom with the latest details:

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According to ARISSat One Project Manager Gould Smith, WA4SXM , the former Suit-Sat will not make an appearance in space until sometime in August.

In a news release, Smith said he and ARISS Hardware Engineer Lou McFadin, W5DID participated in a teleconference call this week with NASA to review the Roscosmos spacewalk procedures for the release of ARISSat One during E-V-A 29. For those who never heard the term before, E-V-A is an acronym for Extra Vehicular Activity and is NASA-ese for describing a spacewalk

Smith now says the discussion centered on preparation procedures including the battery being charged and assembled into the satellite. Also discussed were the procedures to remove the protective quilts from the solar cells and turning on the safety switches prior to deployment.

During a later teleconference Sergey Samburov, RV3DR announced that the ARISSat One battery will be charged in late July and a test of the system will be conducted from the ISS from 1915 UTC July 30th to about 1200 or 1400 UTC July 31st. The standard ARISSat One 2 meter downlink band plan should be transmitted as well as the FM signal also downlinked on 437.55 MHz.

The ARRISSat One team believes that it is looking at an August 3rd date for actual deployment, but notes that this is all subject to change.

More information as it becomes available. For the Amateur Radio Newsline, I'm Bill Pasternak, WA6ITF, in the newsroom in Los Angeles.

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More on ARISSat One in future Amateur Radio Newsline reports. (ANS)

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RADIO EDUCATION: FCC ANNOUNCES LEARNING ON THE GO

The FCC has officially launched an innovative program for 20 schools and libraries in 14 states aimed at giving participating Kindergarten through 12th grade students off-premises connections to the Internet. This, to increase access to digital textbooks, cutting-edge interactive learning tools, and other innovative wireless technologies. Amateur Radio Newsline's Norm Seeley, KI7UP, has the details:

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The new FCC wireless pilot project is called "Learning On-The-Go," and will provide up to $9 million for the 20 schools and libraries selected for the 2011-2012 funding year. It builds on the FCC's major modernization of the E-rate program last fall, and follows recommendations of the National Broadband Plan. Previously, the E-rate program supported on-campus connectivity only.

According to a 2010 E-rate survey, approximately 50 percent of the schools and libraries that responded indicated that they plan to implement or expand the use of digital textbooks and other wireless devices for digital learning. The 20 selected projects include initiatives to improve off-campus access to e-textbooks for students; connectivity for netbooks for students living in remote, isolated areas and access to flexible, online education programs for home-bound students unable to attend classes.

To initiate the funding process, the FCC has issued an order listing the 20 selected project applicants, outlining participant reporting requirements and more detailed information about the program.

Last September, the FCC initiated the pilot program in its Schools and Libraries Sixth Report and Order and, in November, it issued a public notice setting a December application deadline. The Commission received 94 applications and, in March, issued a public notice announcing the initial selected project participants.

Qualified pilot programs will be funded in the 2011through 2012 school year, assuming compliance with all other program requirements.

This pilot program is one of a series of initiatives in the FCC Education Agenda to modernize the E-rate program to help bring fast, affordable Internet access to schools and libraries across the country. In addition to this program's goal to support off-campus wireless Internet connectivity for mobile learning devices for schools and libraries across the country, the Schools and Libraries Sixth Report and Order is also helping to bring super-fast fiber connections to schools and libraries all across the country via unused fiber optic lines already in place.

The FCC has also opened the door to what it calls "School Spots" where schools have the option to provide Internet access to the local

community after students go home. This the regulatory agency says can bring the benefits of super-fast broadband to people who otherwise lack access to the Internet.

Under the "Learning On-The-Go" pilot program, mobile learning devices enable teachers and parents to tailor school curriculum and interactive learning to students' skill sets. Digital textbooks never go out of date and students will have greater opportunities to access the latest educational curriculum available.

For the Amateur Radio Newsline, I'm Norm Seeley, KI7UP, in Scottsdale, Arizona.

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The FCC's adds that its E-rate program will continue to support schools and libraries across America working toward the goal of helping ensure that the nations students receive the best education and the high-tech skills to compete in the 21st Century economy. A copy of the FCC Order is available on the FCC website at tinyurl.com/fcc-learning (FCC)

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RESCUE RADIO: HURRICANE WATCH NET LOOKING FOR ADDITIONAL REPORTING STATIONS

The Hurricane Watch Net is currently looking for amateur radio operators who are located in hurricane prone areas to become part of a database of "Official Reporting Stations."

One of the functions of Hurricane Watch Net is to provide on the ground, real-time weather data to the forecasters at the National Hurricane Center in Miami, Florida. The Hurricane Watch Net gets this information from amateur radio reporting stations who volunteer their time to monitor data from their home weather stations and report that data to the net that operates on 14.325 MHz.

One important benefit of registering in the database is that the Hurricane Watch Net will notify you of upcoming activations should you be located in the affected area of a storm. If you are interested in joining the Hurricane Watch Net's team as one of its Official Reporting Stations, take your web browser to www dot hwn dot org. Then click on the words "Join Our Team" and complete and submit the short web form that you will see on your screen. Also keep in mind that this is one ham radio activity where the information you provide as a net member could help save lives. (HWN)

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RESTREUCTURING: EUROPEAN CB'ERS GET SSB OPERATION

A decision by the European Union has paved the way for the use of Single Sideband on 27 MHz CB across the British Isles and Europe. The revised regulation will permit European CB operators the use of SSB equipment running 12 watts Peak Envelope Power output in the frequency band 26.960 to 27.410 MHz. The European Union decision to permit SSB

on 11 meters came into force on June 24th and carries a preferred implementation by national telecommunications administrations of October 1st. (Southgate)

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RADIO RULES: LIGHTSQUARED MAY BE ATTEMPTING TO BYPASS FCC REGULATION

The GPS versus broadband saga continues. According to the July 7th issue of the aviation industry newsletter ainonline.com, LightSquared appears to be attempting do an end-run around the FCC to try to get its proposed high speed broadband service into operation.

Possibly recognizing that the July 1st final report on GPS testing showed that interference from its proposed broadband system was worse than predicted, the newsletter says that LightSquared lawyers are now bypassing the FCC and submitting technical papers directly to the United Nation's International Telecommunications Union in Geneva.

As we all know, the I-T-U is the world body that allocates frequency bands internationally within the radio spectrum to different user groups such as aviation, surface and weather. It also regulates and monitors their use. As such, ITU rules are regarded as much stricter than the typical recommendations made by any government telecommunications agency.

Meanwhile, both LightSquared and the GPS community are accelerating their public-relations campaigns. LightSquared is announcing initial customers and statements of support from Internet and voice-over-Internet providers for its 4G broadband system. This, while the GPS industry warns of ominous test results regarding interference from LightSquared's signals that could become a matter of life and death for first responders, such as ambulances, police and fire department vehicles.

In Congress, the House of Representatives included in a financial appropriations bill a prohibition on further FCC expense on LightSquared's proposal, even including staff salaries, until the company presents a complete GPS protection plan.

And in a late breaking development, a federal report documenting GPS interference by the proposed LightSquared satellite-terrestrial broadband network has been released. In its findings, the National Telecommunications and Information says that it supports a recommendation that additional tests be performed and also recommends that the FCC continue to withhold authorization for LightSquared to commence commercial operations until all the available test data can be analyzed and all valid concerns have been resolved. More is on-line at tinyurl.com/arn-lightsquared-3. (ainonline.com, RW)

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BREAK 1

>From the United States of America, We are the Amateur Radio Newsline, heard on bulletin stations around the world including the WD6HFR

repeater serving the region around Palomar, California.

(5 sec pause here)

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RESCUE RADIO: FCC REMINDS VPD'S OF OBLIGATION TO AIR EMCOMM INFORMATION TO THE DISABLED

The FCC says that in light of the recent flooding in the south, the tornadoes in various parts of the country, and the already active storm season, that it is issuing a Public Notice on information distribution. This, to remind video programming distributors of their obligation to make emergency information accessible to persons with hearing and vision disabilities in accordance with section 79.2 of the Commission's rules. Amateur Radio Newsline's Jim Davis, W2JKD, has the details:

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Under section 79.2, emergency information encompasses what the regulatory agency calls critical details regarding the emergency and how to respond to it. It also must provide information for consumers about how to contact their video programming distributor or the Commission regarding compliance with the rule. Those affected include broadcasters, cable operators, satellite television services, and "any other distributor of video programming for residential reception that delivers such programming directly to the home.

The FCC adds that the need to comply with section 79.2 and make the critical details of urgent information accessible is not always limited to the immediate geographic areas affected by the emergency. This is because in some cases information such as the relocation of individuals outside that immediate geographic area also falls within the rule's mandate. Accordingly, compliance with section 79.2 could include providing information to non-impacted areas sheltering individuals displaced by a large-scale disaster. This might include incidents such as the recent tornado devastation to Joplin, Missouri or in 2005 when Hurricane Katrina struck the Gulf Coast.

Im Jim Davis, W2JKD.

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The FCC says that all video programming distributors that air emergency information are required to make this information accessible who are visually or aurally handicapped. There are no exemptions to section 79.2. A local broadcast licensee is responsible for complying with section 79.2 regardless of the technology used to deliver its signal to consumers. (FCC)

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RESCUE RADIO: TORNADO VIDEO NOW ON LINE

A anthology of broadcast television and radio coverage of recent tornadoes and their aftermath that was shown at the recent National Association of Broadcasters Education Foundation's Celebration to Service to America Awards is now available for anyone to view on-line. The six-plus minute clip shows the twisters along with a series of TV meteorologists warning people to take cover.

One clip from a live news chopper shows the tornado funnel from the level of the cloud ceiling. Another shot shows a twister hitting what appears to be a Mack truck and shredding it into sheets of metal that blow away like tissue paper.

The second half shows aftermath stories including relief efforts. The video is in cyberspace at tinyurl.com/arn-tornado-video (TVB)

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RESCUE RADIO: HUNTINGTON BEACH CA. ROLLS OUT NEW EMCOMM UNIT

Huntington Beach, California has introduced its new emergency communications trailer to the public. According to Wayne Yoshida, KH6WZ, on Field Day weekend the new response unit made its first public appearance.

Yoshida says that the new unit was purchased by the City of Huntington Beach using homeland security grant funds. In addition to amateur radio, the trailer is also equipped with two-way radio gear for the city's police and fire departments making it a universal mobile command station tool. (KH6WZ)

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ENFORCEMENT: NEW FINES INSTITUTED FOR ILLEGAL USE OF LASERS

Federal aviation officials say they will start imposing fines against people who point lasers at planes and helicopters, which can temporarily blind pilots. Agency officials released a new legal interpretation they said will allow them to fine people who point the lasers as much as $11,000 per incident.

According to the FAA, pilots have reported over 1,100 such incidents in the U.S. so far this year. These incidents have also increased rapidly around the world over the past six years. This as online sales of newer and more powerful handheld lasers have soared.

The lasers are being marketed as an astronomical tool to point out stars at night but a government spokesman says that people are also pointing them at truck drivers, bus drivers and even individual motorists. The spokesman calls that this is a ridiculous kind of behavior and it needs to be stopped and stopped quickly.

So far this year, the Phoenix and Dallas-Fort Worth regions have each recorded more than 45 such dangerous laser events. Meantime, the Los Angeles, Philadelphia and Houston areas each have recorded more than illegal 30 laser pointings. (FAA and other published news reports)

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ENFORCEMENT: BIG FINE FOR TOWER LIGHT FAILURE REDUCED

A fine against Big Fish Broadcasting for antenna lighting violations has progressed to a forfeiture order.

Big Fish owns a tower in Greenwood, S outh Carolina and used to own one in Chappells, South Carolina. It sold the latter one to Radio Training Network Inc. in April 2010.

The commission says the red obstruction lights were out for both towers and that the company didn't notify the FAA of the outages. In a recent decision, the agency said both towers required painting and a lit, flashing red beacon up top, along with steady burning red side obstruction lights.

Responding to a complaint about tower outages, the FCC's Atlanta office had contacted the FAA, which said no outage report had been filed for the towers. As a result, no Notice to Airmen or NOTAM had been issued for the unlit structures.

According to the Commission's summary of the case, in July 2009, the agency notified told Big Fish's owner the towers were his responsibility. He responded that he would check into it and notified the FAA about the outages that month. That October and again in November, the FCC confirmed the towers were still unlit after sunset and there was no power to the site. The agency said the local power company confirmed electricity to both towers was shut off in 2009.

In July 2010, the commission issued a $20,000 fine to Big Fish. In response, the broadcaster argued that it did not receive the notice until 30 days after its release and, by then, had already taken steps to fix the violations. Big Fish also said the company couldn't pay the full amount and asked for a reduction based on past good compliance with FCC rules.

The FCC expects violations to be corrected so it did not knock off any penalty because of that; however it did cut the fine to $7,000 based on documentation proving the company couldn't pay the full amount. Big Fish was given the customary 30 days to pay or to file an appeal. (RW)

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ENFORCEMENT: $10,000 FINE AFFIRMED FOR UNLICENSED OPERATION

The FCC has affirmed a $10,000 Forfeiture Order issued to Antonio Robinson for willful and repeated violation of section 301 of the Communications Act. The alleged violations involved Robinson's alleged operation of an unlicensed radio station on 105.5 MHz from his commercial suite in Miami, Florida.

Back on May 5th, the Enforcement Bureau's Miami Office issued a Notice of Apparent Liability for Forfeiture in the amount of $10,000 to Robinson. Since that time Robinson has not filed a response to the Notice. Based on the information before us, the FCC has affirmed the

forfeiture order and has given Robinson the customary 30 days to pay or to file an appeal. (FCC)

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THE SOCIAL SCENE: EMCOMM EAST CONFERENCE ON SEPTEMBER 25 IN ROCHESTER, NY

Turning to the ham radio social calander, word that the 2011 EmComm East Amateur Radio Emergency Communications Conference is now slated for Sunday, September 25th at St. John Fisher College in Rochester, New York. The featured speaker will be ARRL Emergency Preparedness and Response Manager Mike Corey, W5MPC.

EmComm East is sponsored by Monroe County Amateur Radio Emergency Service, Inc. Registration is now open. More information is on-line at www.emcommeast.org or by e-mail to info (at) emcommeast (dot) org. (Emcommeast)

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NAMES IN THE NEWS: VK4XJJ WALKING ACROSS AUSTRALIA OPERATING HF

Jeff Johnson VK4XJJ is walking across Australia to raise Money for a charity known as the Newborn Emergency Transport Service. At last reports, he is now roughly half way across the country and he is looking for contacts from stations in the west on 14.090 MHz Upper Sideband at 06:30 UTC. Jeff will also be found on 7.045 Lower Sideband at 07:30 UTC, Jeff then moves back to 14.090 at approximately 07:40 UTC. More is on the web at www dot jeffswalk2 dot com. (WIA News)

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CORRECTION: RIGHT COMPANY BUT WRONG CALL

And a quick correction to my story about the Internet podcast Ham Nation on last weeks Newsline. It turns out that it was Eric Swartz, WA6HHQ, that was Leo Laport's college roommate, not Wayne Burdick, N6KR. Swartz and Burdick are of coarse the two hams that founded Elecraft several years ago. (ARNewsline(tm))

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BREAK 2

This is ham radio news for today's radio amateur. From the United States of America, We are the Amateur Radio Newsline with links to the world from our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

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RADIO GEER: ANYONE NEED AN RCA FM BROADCAST TRANSMITTER

Anybody got a good home for an RCA FM broadcast transmitter? According to Radio World on-line, the box in question is a model BTF-40E FM transmitter that currently resides on Cougar Mountain near Seattle, Washington.

The BTF-40E is described as actually being a pair of model BTF-40E's using a combiner to produce about 33,000 watts total power out. And before you ask, no, we do not know if it can be converted for use on the two meter band. Besides which, the power put out by the driver stage would likely exceed the maximum that's legal on the ham radio bands. But, on the other hand, it could make a nice living room conversation piece for any ham whose X-Y-L would let it in the front door.

Bryan Jones of equipment dealer RF Specialties Group says one of his clients is about to dispose of it to make room for a new unit. He welcomes questions about it by e-mail to bryan (at) rfswa (dot) com. (RW)

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EMERGING TECHNOLOGY: UK COMPANY BEGINS MANUFACTURING WHITE SPACE RADIO GEAR

A UK startup company called Neul has begun manufacturing a white space radio. This, despite the fact that there isn't a single country where such a unitwould be legal to use. At least not yet. Amateur Radio Newsline's Bruce Tennant, K6PZW, reports:

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Neul which was launched last year in the United Kingdom city of Cambridge has been talking about protocols and standards for use in the so-called white space where television broadcast frequencies are not being used locally. Now the company which is staffed by some of the UK's top radio developers has real product to sell.

The Neul unit offers connection speeds of up to 16Mb per second for organizations with proper experimental licenses that want to see what white space communications can offer them. And at least in the U-K such licenses are not hard to obtain. Neul says that British telecommunications regulator Ofcom processed its application within a couple of weeks.

Now it's reported that within a couple of years such a license shouldn't be necessary in the U-K as Ofcom is poised to allow unlicensed exploitation of the nations white spaces. Unlicensed use will be technology neutral, just as 2.4GHz is now, so any networking system will have to contend with garage door openers, baby monitors and the like.

Ofcom says that white space units will be required to check with an online database to see what frequencies are available. It believes that this should prevent the more-trivial applications from bothering more important ones. None the less both regulators and equipment suppliers

expect to see a wide variety of applications filling the bandwidth once it opens up in the next few years.

For the Amateur Radio Newsline, I'm Bruce Tennant, K6PZW, in Los Angeles.

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While predictions for embedded, and networked, devices vary by tens of billions, but most observers agree that they'll be something in the region of 50 billion such devices looking for a network connection in the next few decades. (MN)

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WORLDBEAT: DUTCH PARLIAMENT APPROVES RADIO NETHERLANDS WORLDWIDE CUTS

Some sad news for Shortwave listeners. The possible end to an era in shortwave broadcasting is here. This after the Dutch parliament votes against two motions which might have blunted the effect of the budget cuts facing Radio Netherlands Worldwide.

One of the proposals called for a separate debate devoted to the future of Radio Netherlands Worldwide. The other criticized the decision-making as hasty and called for a postponement.

Effectively, this vote means that the cabinet's plans to move Radio Netherlands Worldwide operations from control under the Education, Media and Culture Ministry to the Foreign Ministry. Also, to cut the budget from 46.3 million euros to 14 million.

According to the newsletter of the Asia-Pacific Broadcasting Union, the Dutch government wants Radio Netherlands Worldwide to focus on bringing independent information to people in countries without press freedom and to scrap its other functions of providing information for Dutch people living abroad and presenting a realistic image of the Netherlands to other countries. The newsletter said it's unclear how much of the rest of Radio Netherlands Worldwide's existing content can be continued.

Meantime, Radio Netherlands Worldwide station management will now have to draw up an employment cutback plan, which is expected to be completed sometime in October. (Media Network, RNW News, APU)

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WORLDBEAT: VK REPEATER BLOWN OFF HILLTOP BY SEVERE WINDS

Australia's recent stormy weather has claimed another victim. The VK7RNE, north-eastern repeater located on Tower Hill, unexpectedly went off the air recently.

The cause was immediately apparent to the ground crew on its arrival at the scene. The shed that housed the repeater was found lying on its side, along with all its contents, some way down the mountain. It had literally been knocked off its foundation by the wind.

The radio equipment has been recovered but currently there are no plans at present to reinstate the repeater. This sad event thus brings about the close of a chapter in the repeater history of VK7.

The VK7RNE has long provided a useful service to that part of the state and was a tribute to Paul Godden, VK7KPG, and his small group that first installed and then maintained the facility over the years. Some members of the group are now silent keys. In recent years the annual Australian license fee has been underwritten by the North West Tasmanian Amateur Television Group. (WIA News)

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ON THE AIR" BATTLE OF BRITAIN STATION BECOMES PERMANENT SPECIAL EVENT

On the air, keep an ear open for U-K special event station GB4BOB to be active from September 1st to the 20th to commemorate the World War Two Battle of Britain. After running this station as a one-off for the battles 70th anniversary, the Pontefract and District Amateur Radio Society has now decided to keep it as an annual event to remember those who fought in it. QSL's go direct to G0BPK or via the RSGB bureau. More is on the Pontefract and District Amateur Radio Society website at www.pdars.com (Southgate)

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ON THE AIR: CELEBRATING THE FLIGHT OF LIBERTY BELL 7

Back on this side of thre Atlantic, the 50th Anniversary of the Flight of the Liberty Bell 7 spacecraft by astronaut Virgil I. "Gus" Grissom will be celebrated by the Hoosier Hills Ham Club. This, by activating special event station W9GUS on Saturday, July 23.

The station will be located in Spring Mill State Park at the Grissom Memorial near Mitchell Indiana. Operation will be 10 am to 4 pm Central U-S Daylight Savings Time with stations on 40, 20 and possibly 6 meters.

For those of you a bit to young to remember, Gus Grissom was one of the original NASA Project Mercury astronauts and a United States Air Force pilot. He was the second American to fly in space and the first astronaut to fly in space twice. Grissom along with fellow astronauts Ed White and Roger Chaffee died during a pre-launch test for the Apollo 1 mission at Cape Canaveral on January 27, 1967 when a spontaneous fire broke out in their command module.

More information about this commemorative operation of the Hoosier Hills Ham Club special event station W9GUS is on-line at www.w9qyq.org (WA9JHH)

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DX

In DX, a group of German operators will be on the air from Ascension

Island as Zed-D-8-D from July 24th through August 9th. These are the same dates as previously announced, but their location on the island has changed due to damage to their original planned site. Listen out for Zed-D-8-D operating from a guesthouse in Georgetown which the group says is not the most ideal location. This could handicap their operatrions on 160 and 80 meters. Updates are on-line at www.zd8d.de.

RW6AML will be on Waya Island, Fiji until July 17th. He will be active as 3D2ML on both CW and SSB. QSLs go to his home callsign.

IK5ASN will be active as 9A8ASN from the island of Cres through the 30th of July. He will be on 40 and 20 meters using only SSB, CW, RTTY and PSK31. QSL via IK5SAN, direct or preferably via the bureau.

DL8KX and DD8ZJ will be active as 9H3KX from Gozo Island between October 8th and the 14th. Their operation will be on the High Frequency bands using CW and SSB. QSL via DL8KX either direct or via by the bureau.

KF8UN, will be in Peru between July 22nd and August 16th. He plans to be active stroke OA4 and says that he plans to work 20 meters, devoting August 8th specifically to amateur radio. At other time he will be operating casually at all other times hes on the air. He also plans to be on mobile as time permits. QSL via his home callsign.

Lastly, SM1TDE, will be active stroke O-H-Zero from the Aland Islands group between July 21st and the 24th. Look for him around 2 kHz from the band edges on CW on 80 through 10 meters. This operations will be holiday style meaning he will be on the air only as time permits QSL via the bureau, and Logbook of the World.

Above from various DX news sources.

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THAT FINAL ITEM: LOVE AND MARRIAGE AT FIELD DAY

And finally this week, the story of a romance that ended at a Field Day Wedding. From down-under, heres VK2BUI:

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When you think about ARRL Field Day, a few things come to mind: food, radios, food, antennas, food and friends. And food. But one couple took things a little bit further when they got married at their Field Day site.

Kevin Shissler, K1FQ, and Debra Hubbard, N1FQ, love Field Day so much that they decided it was the perfect place to share their love for each other and for amateur radio.

Wearing their 2011 ARRL Field Day shirts, they tied the knot at the Field Day, swapping the 20 meter band for a band of gold.

And as an aside, In April 2010, N1FQ donated 60 percent of her liver to a co-worker Jan Watson. Now Jan -- a happy Jan

-- had her chance to return the favor. She officiated the wedding.

Amateur radio amour. Do we get bonus points for this?

Reporting the weird and wonderful, I'm John, VK2BUI.

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Our best wishes to the newlywed couple for a long and happy life filled with the very best of DX.   (ARRL, WIA)

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NEWSCAST CLOSE

With thanks to Alan Labs, AMSAT, the ARRL, the CGC Communicator, CQ Magazine, the FCC, the Ohio Penn DX Bulletin, Radio Netherlands, Rain, the RSGB, the Southgate News and Australia's WIA News, that's all from the Amateur Radio Newsline(tm). Our e-mail address is Newsline (at) arnewsline (dot) org. More information is available at Amateur Radio Newsline's(tm) only official website located at www.arnewsline.org. You can also write to us or support us at Amateur Radio Newsline(tm), 28197 Robin Avenue, Santa Clarita California, 91350

For now, with Bill Pasternak, WA6ITF, at the editors desk, I'm Don Wilbanks, AE5DW, saying 73 and we thank you for listening.

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